

**FRIEDMAN & BRUYA, INC.**

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**ENVIRONMENTAL CHEMISTS**

Date of Report: 04/09/98

Date Received: 04/02/98

Project: Metro Self Monitor, PO# M10584

Date Samples Extracted: 04/06/98

Date Extracts Analyzed: 04/06/98

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, ZINC**

**USING METHOD 6010**

**Samples Processed Using Method 3005A**

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M10584	0.50	0.29	0.47	0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

Date of Report: 04/09/98

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Project: Metro Self Monitor, PO# M10584

### QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 804013-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/l (ppm)	<0.05	<0.05	nm	0-20
Copper	mg/l (ppm)	<0.05	<0.05	nm	0-20
Nickel	mg/l (ppm)	<0.05	<0.05	nm	0-20
Zinc	mg/l (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 804013-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/l (ppm)	5	<0.05	98	103	80-120	5
Copper	mg/l (ppm)	5	<0.05	99	100	80-120	1
Nickel	mg/l (ppm)	10	<0.05	97	101	80-120	4
Zinc	mg/l (ppm)	5	<0.05	98	101	80-120	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/l (ppm)	5	101	104	80-120	3
Copper	mg/l (ppm)	5	101	104	80-120	3
Nickel	mg/l (ppm)	10	101	105	80-120	4
Zinc	mg/l (ppm)	5	101	106	80-120	5

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

~~KJ~~ ~~Q~~  
MM CI

## SAMPLE CHAIN OF CUSTODY

Contact SEAC | Lampson

City, State, Zip Seattle WA 98134

Phone # (206) 382-8379

FAX # (202) 382-4309

Date 4-2-98

SITE NO.

PROJECT NAME

**PURCHASE ORDER #**

7238

metro self monitor

✓ 10584

SAMPLERS (signature)

### PROJECT LOCATION

*[Handwritten signature]*

3200 6th Ave S.

REMARKS

### SAMPLE DISPOSAL INFORMATION



**Dispose after 30 days**



## Return Samples



### Call for Instructions

[illegible]

SIGNATURE

PRINT NAME

COMPANY

Date \_\_\_\_\_

## Time

Relinquished by:

GENARD Thompson

ACW

4/2/28
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103pm

Received by:

MANUEL MARTI

FBI

4-2-98

1:03 PM

Requisitioned by:

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

April 9, 1998

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 2, 1998 from your Metro Self Monitor, PO# M10584 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Manuel Marti  
Project Manager

Enclosures  
ACU0409R.DOC

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

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**April 9, 1998**

**DUPLICATE COPY**

**INVOICE #98ACU0409-1**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

**RE: Project Metro Self Monitor, PO# M10584: Results of testing requested  
by Gerry Thompson for material submitted on April 2, 1998.**

**1 water sample analyzed for  
Chromium, Copper, Nickel, and Zinc  
using Method 6010 @ \$65 per sample**

**\$ 65.00**

**Amount Due .....**

**\$ 65.00**

FEDERAL TAX ID (b) (6)